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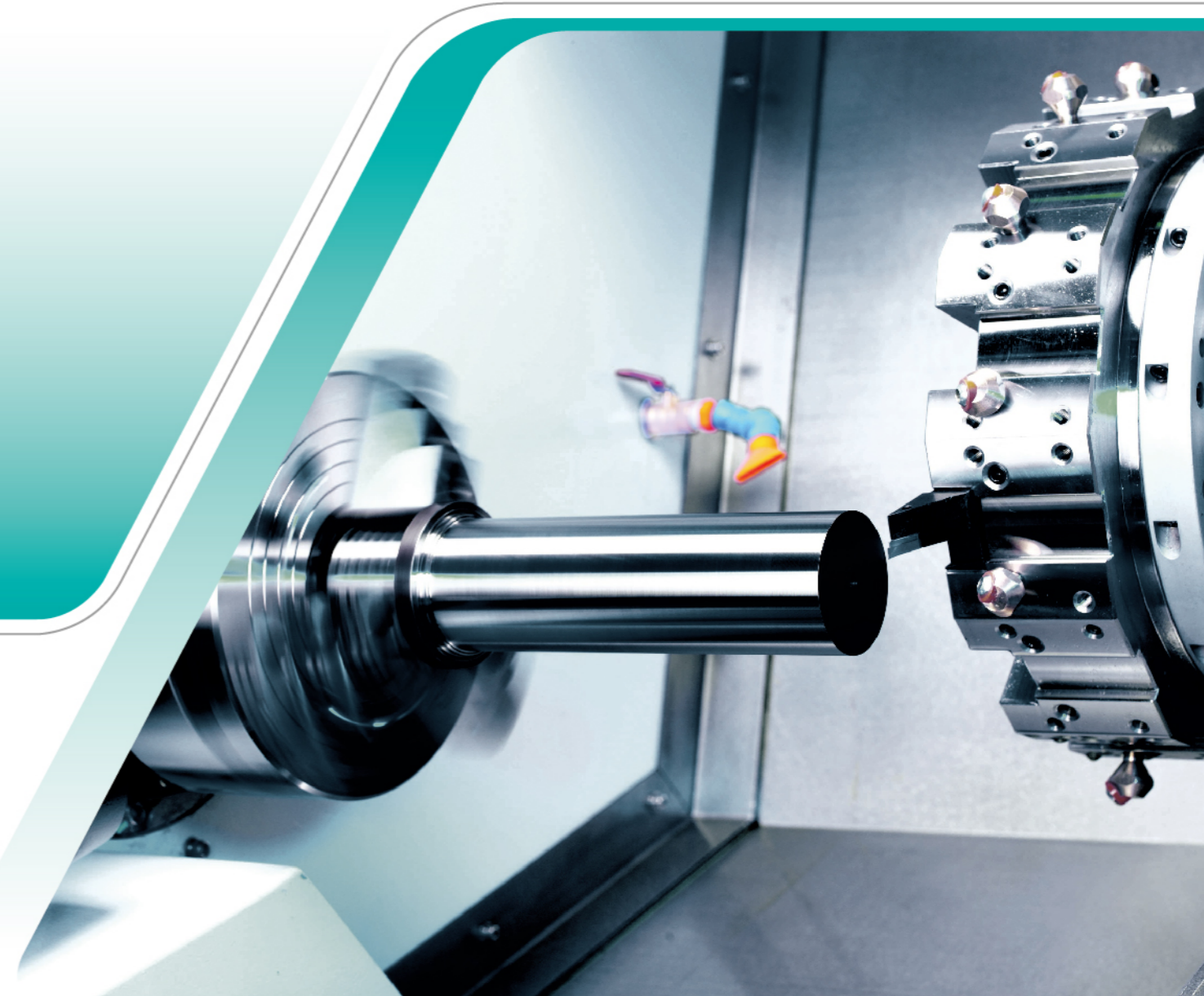
ISO 9001  
 ISO 14001



Website



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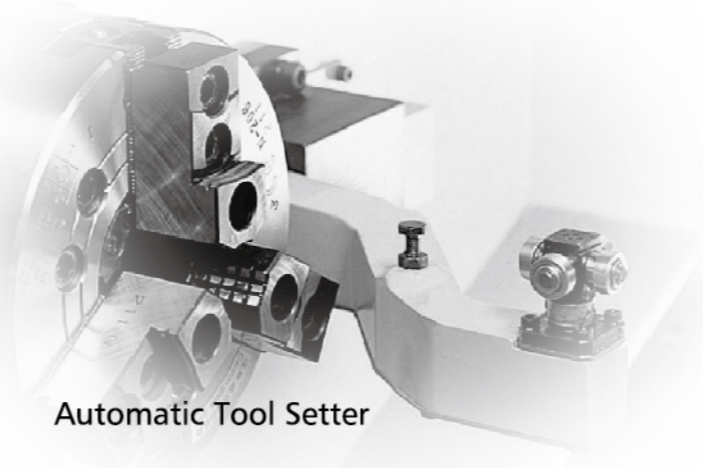
# FTC SERIES

## CNC Turning Center

# FTC-10

## Main Features:

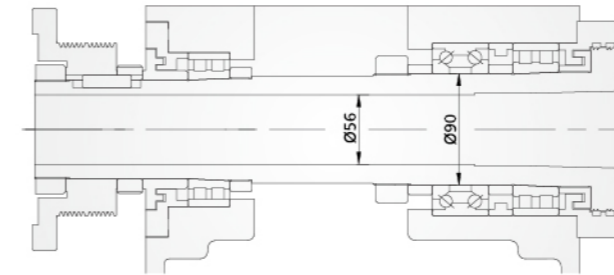
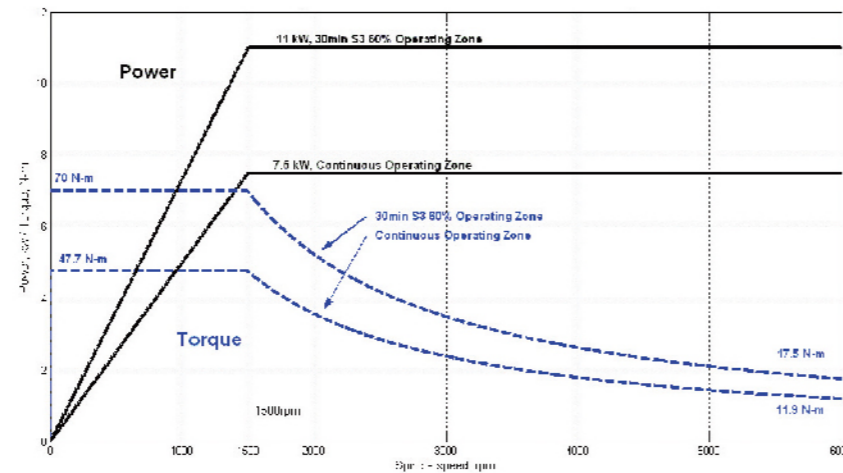
- Swing over bed  $\varnothing 520$  mm
- Standard turning diameter  $\varnothing 180$  mm
- Max. turning diameter  $\varnothing 240$  mm
- Max. turning length 255 mm



Automatic Tool Setter



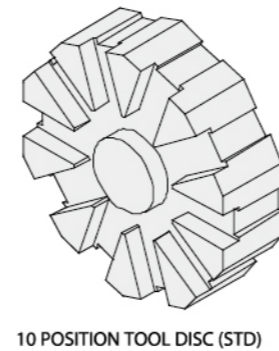
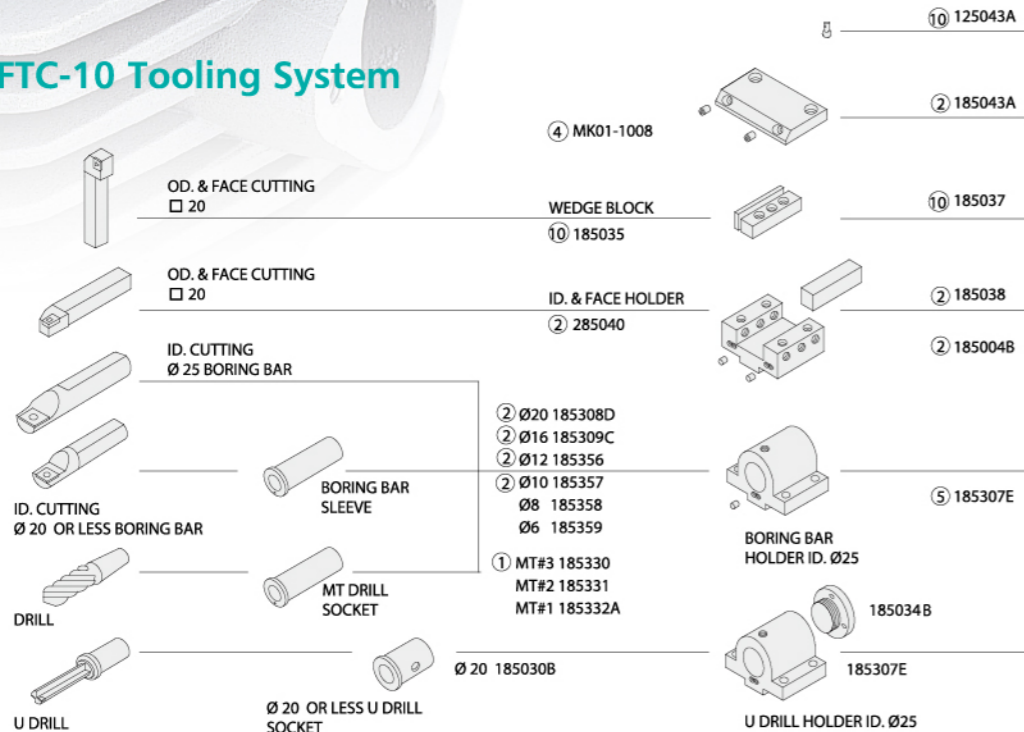
## Power/Torque characteristic of Fancu $\alpha 8/8000i$ for A2-5 Spindle



## HIGH PRECISION SPINDLE

High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special dissipation design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings and ensures spindle reliability.

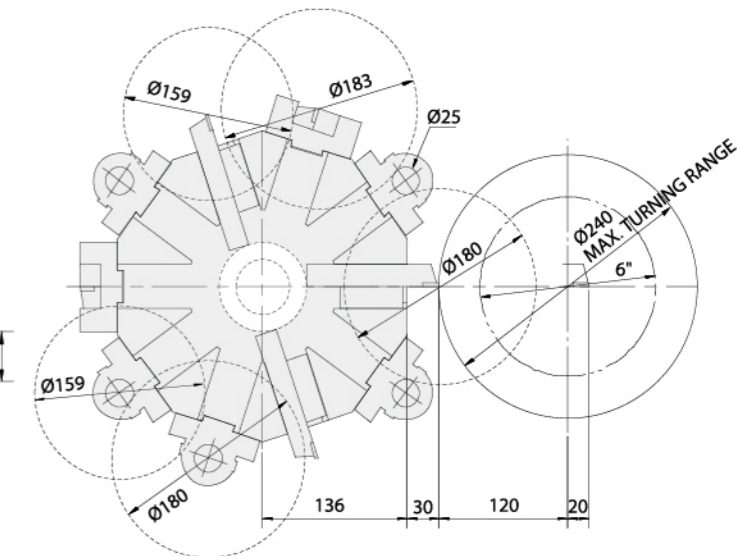
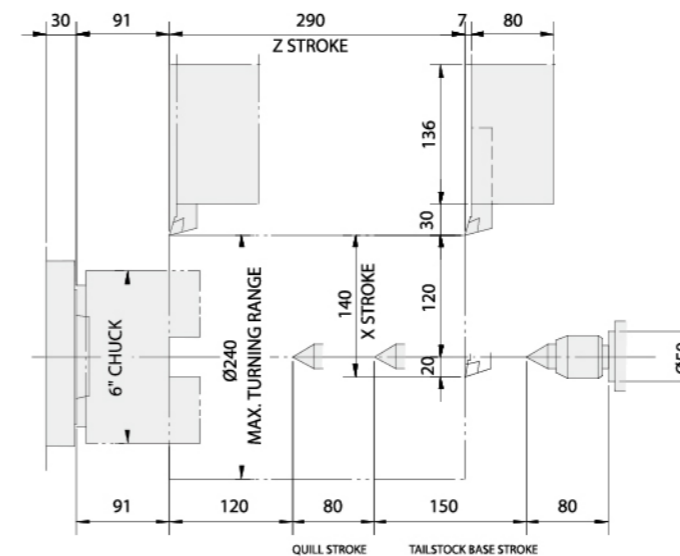
## FTC-10 Tooling System



10 POSITION TOOL DISC (STD)

"O" STANDARD QUANTITY

## FTC-10 Working Capacity

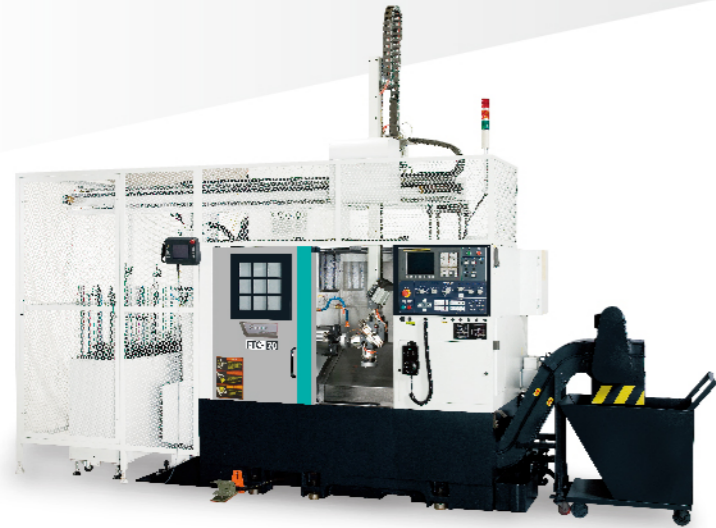
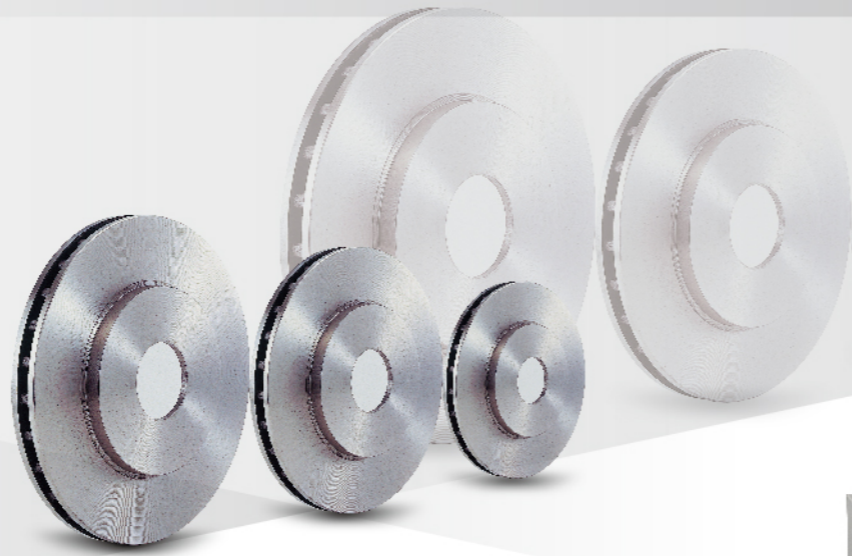


10 POSITION TOOL DISC (STD)

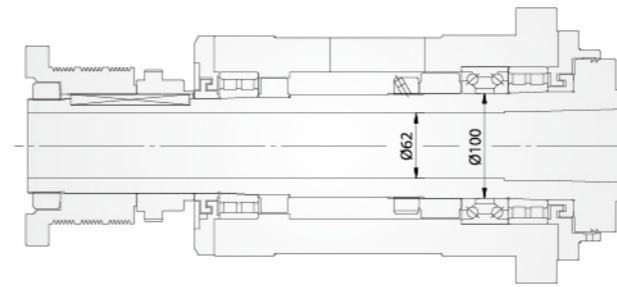
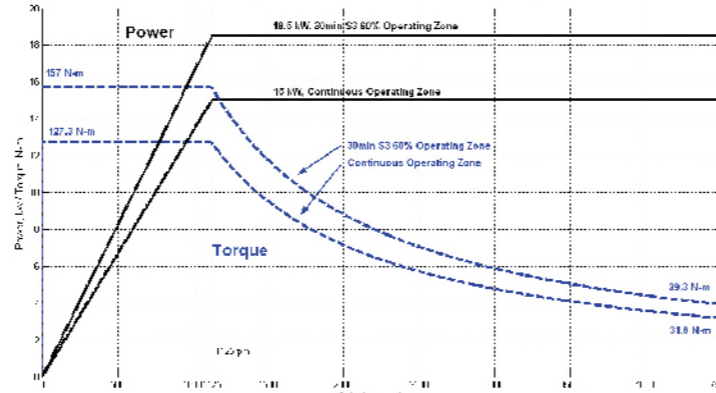
# FTC-20

## Main Features:

- Swing over bed  $\varnothing 600\text{mm}$
- Standard turning diameter  $\varnothing 250\text{ mm}$
- Max. turning diameter  $\varnothing 350\text{ mm}$
- Max. turning length 343/613mm



## Power/Torque characteristic of Fanuc $\alpha 8/8000i$ for A2-6 Spindle

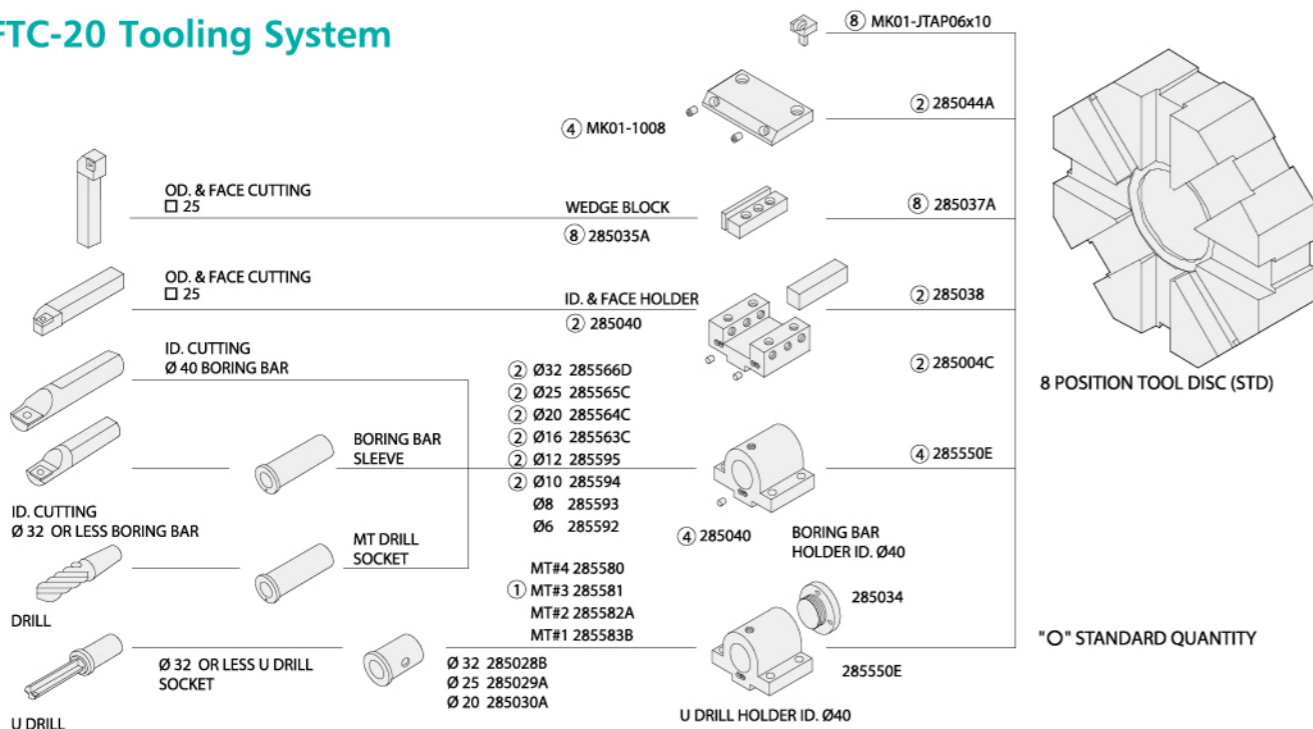


## HIGH PRECISION SPINDLE

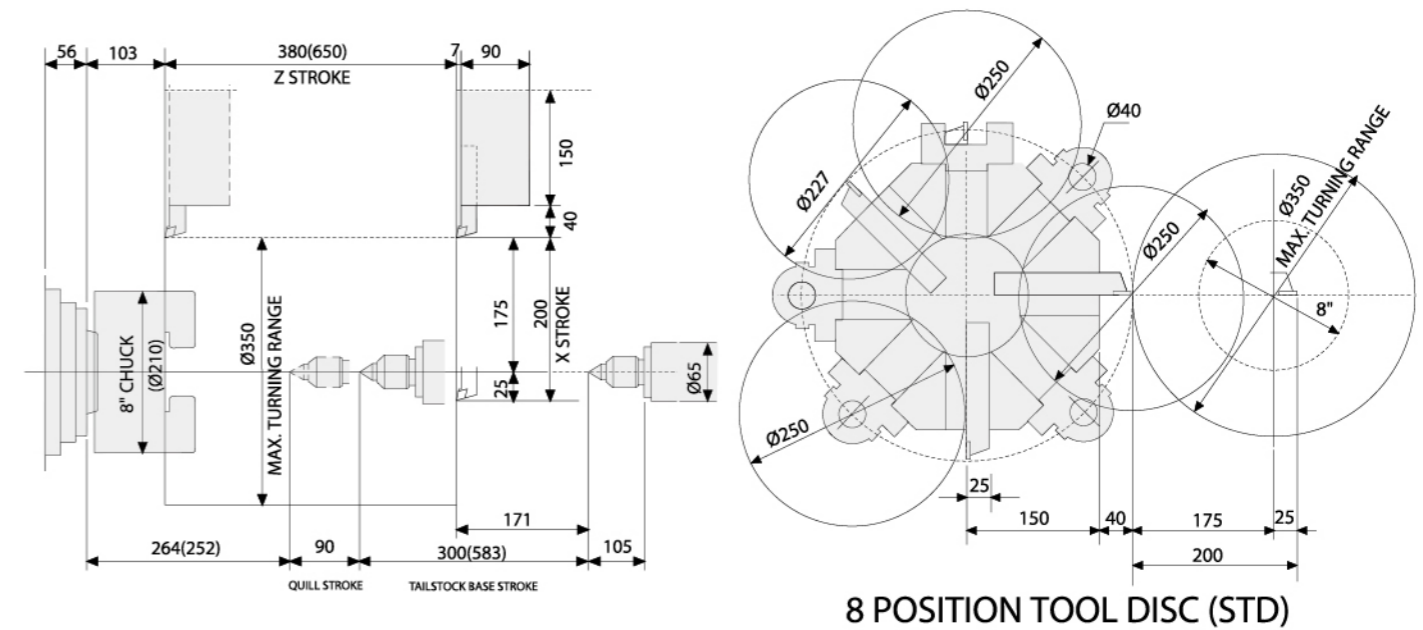
High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special dissipation design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings and ensures spindle reliability.

## Automatic Loading / Unloading

## FTC-20 Tooling System



## FTC-20 Working Capacity



# FTC-30

## Main Features:

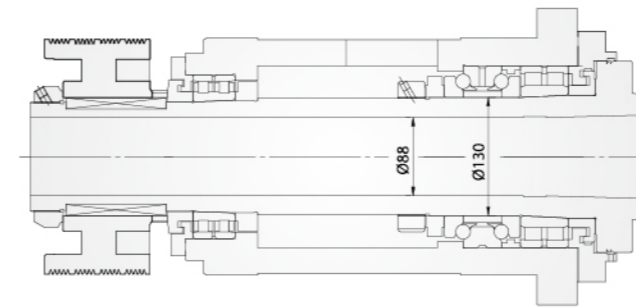
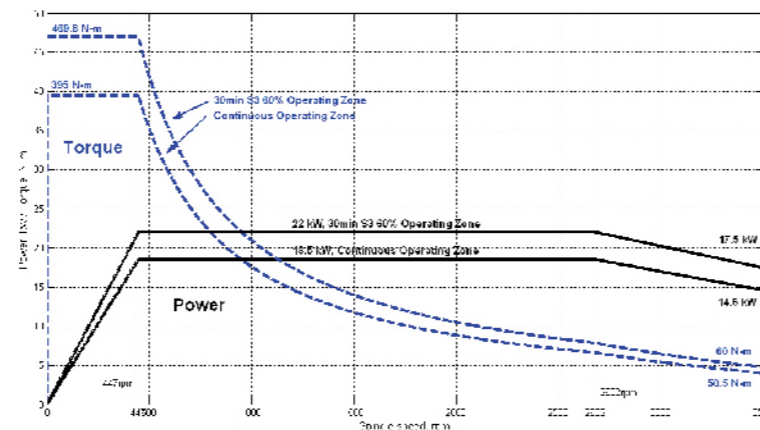
- Swing over bed Ø580 mm
- Standard turning diameter Ø310 mm
- Max. turning diameter Ø450 mm
- Max. turning length 621 mm



Heat Dissipation Headstock



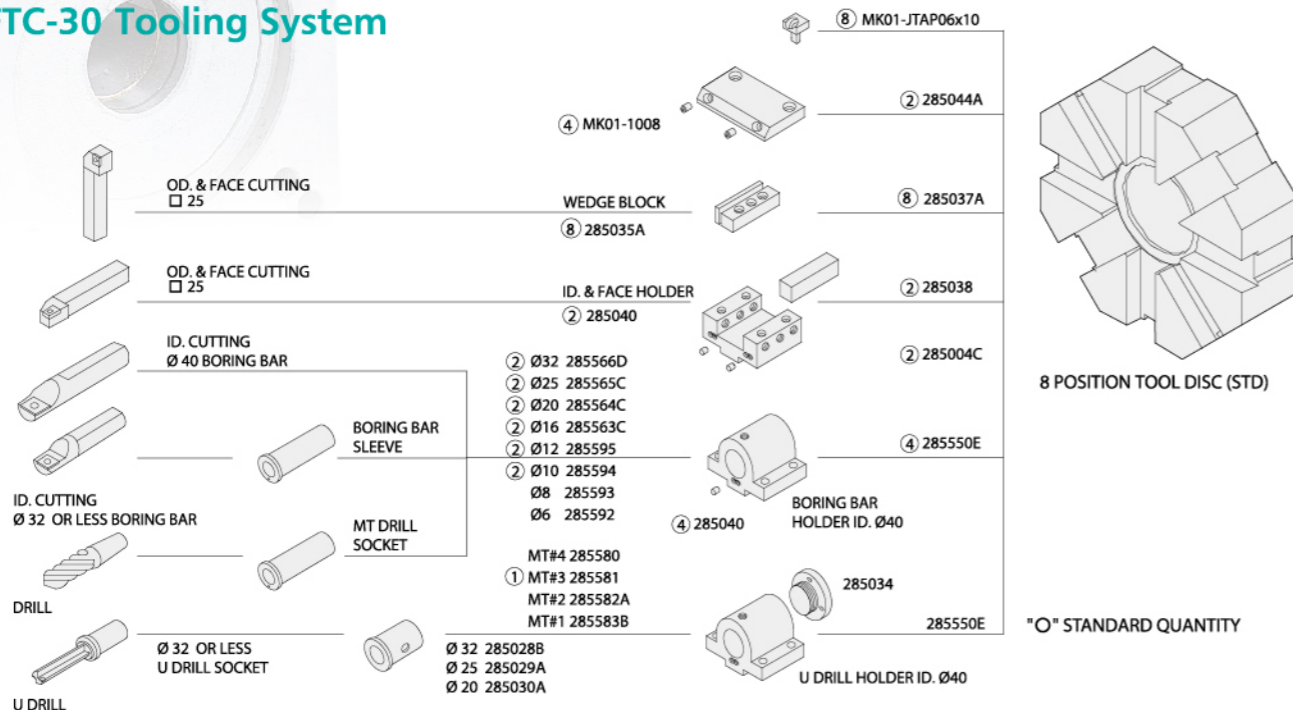
## Power/Torque characteristic of Fanuc ap40/6000 for A2-8 Spindle



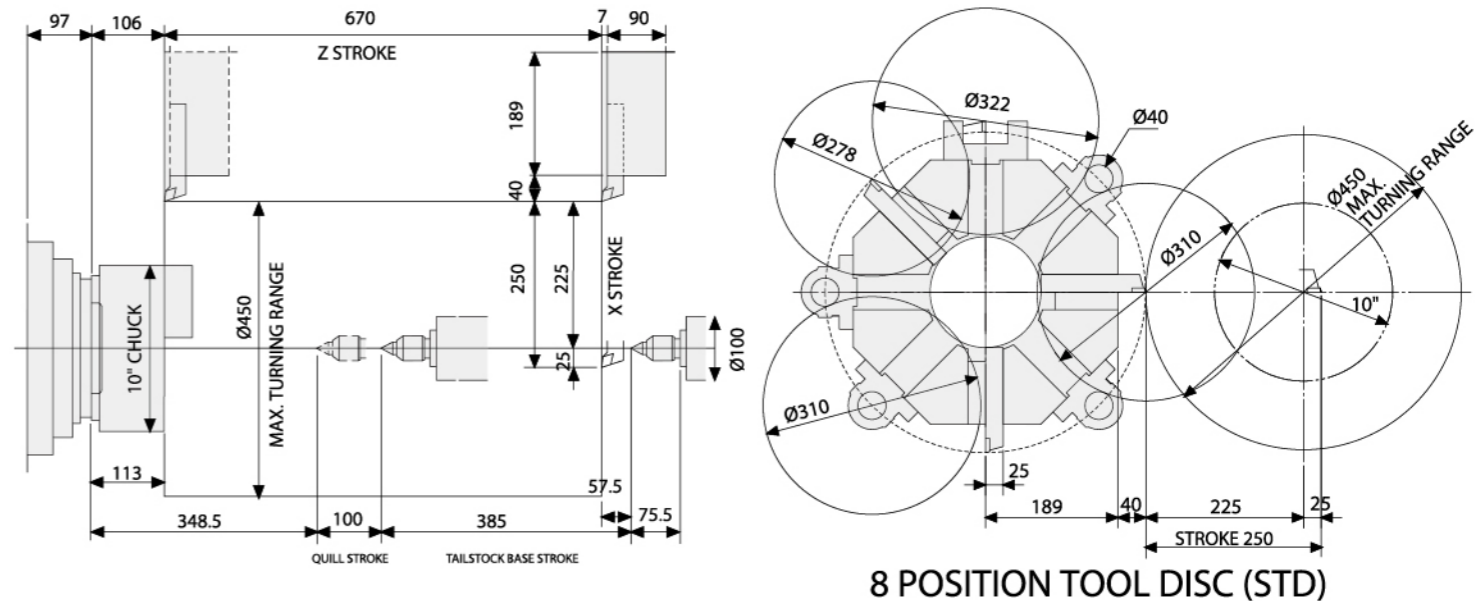
## HIGH PRECISION SPINDLE

High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings and ensures spindle reliability.

## FTC-30 Tooling System

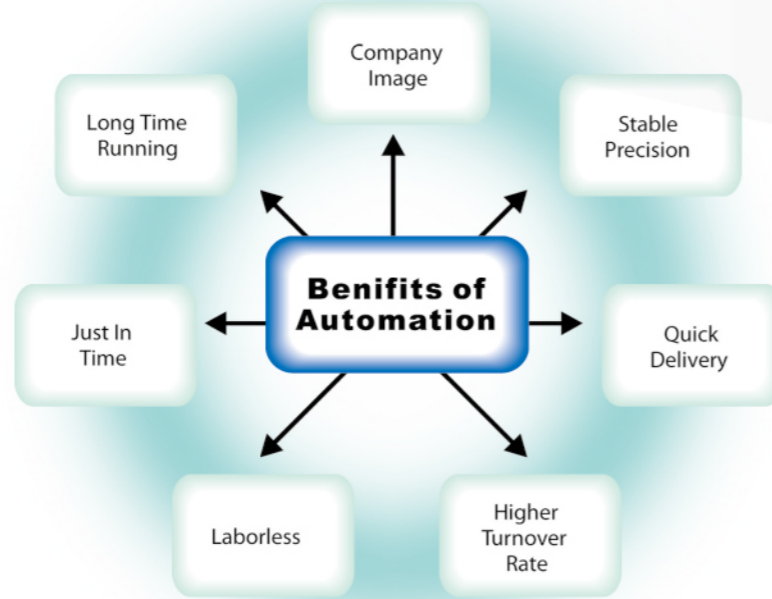


## FTC-30 Working Capacity

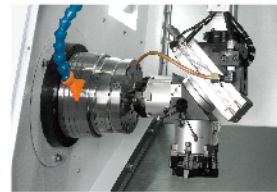


# Unmanned Production System

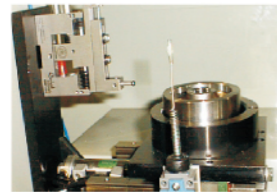
The well designed unmanned production system from FEELER is suitable for mass production of parts. The system provides clock-round, fully automated production without any operator. Manpower is required only on procedures of raw material supply and finished parts collection. Undoubtedly, this machining system is the ultimate solution for maximum productivity and profits along with minimum labor cost.



工業局認證通過A3自動化專業輔導廠



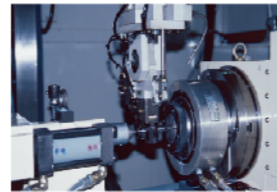
Parallel jaw



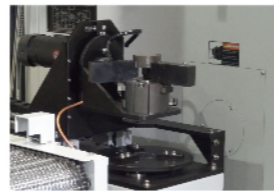
Automatic part-measuring



Adjustable quill movement



Hydraulic tailstock / The 4<sup>th</sup> axis

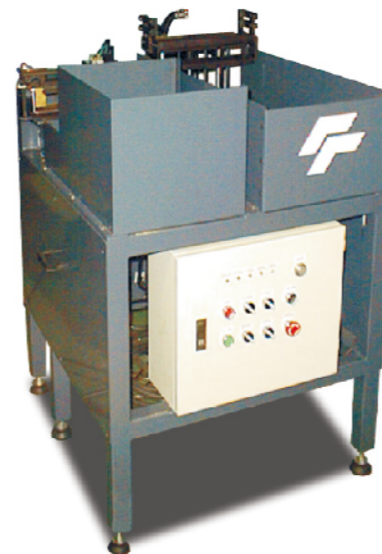


Turn over station

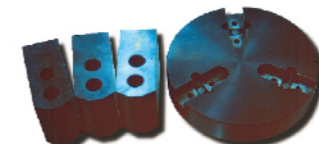
## ■ Pallet Type WF-02

## ■ Built in robot cell+Pallet Type WF-02

## ■ 13-Plate Supplier



Product Transport Conveyor

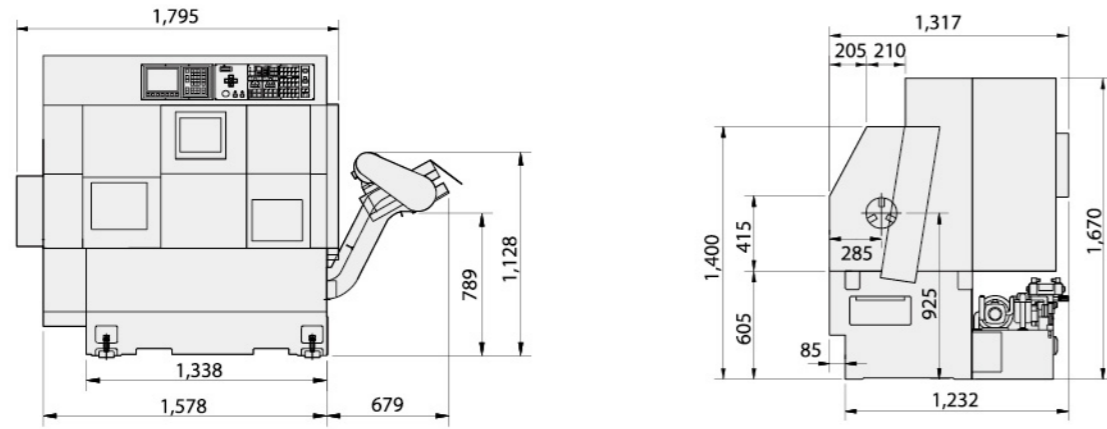


Jaw-Fix Tool / Soft Jaw

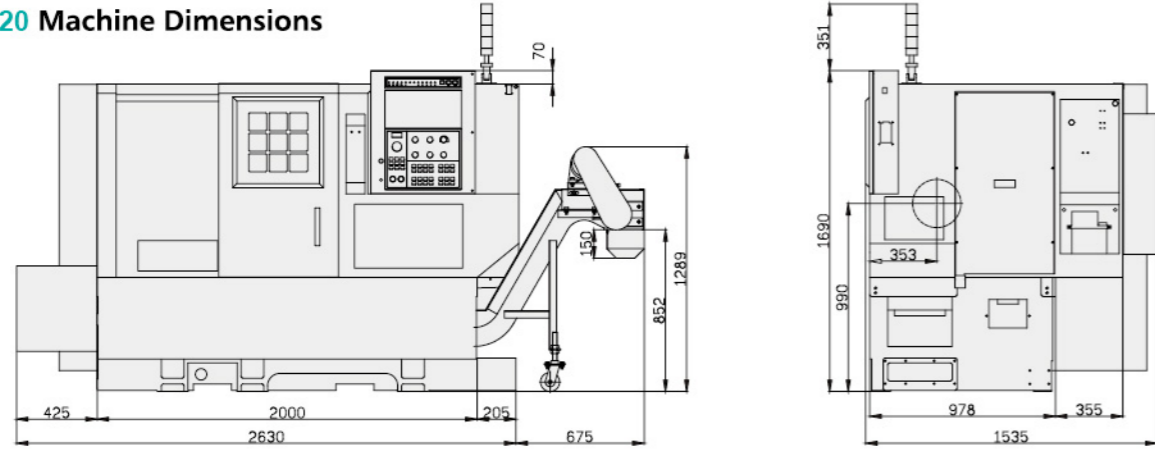


Supply Table

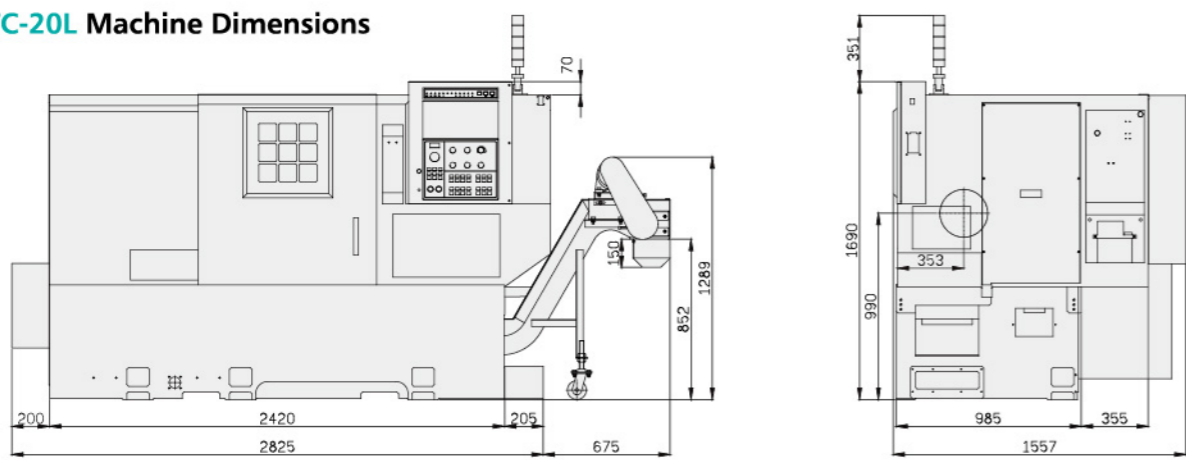
### FTC-10 Machine Dimensions



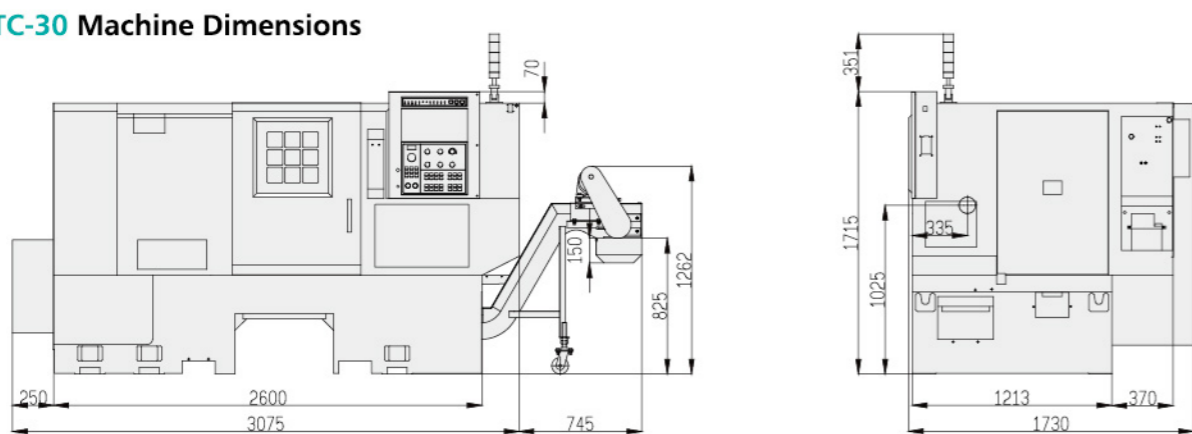
### FTC-20 Machine Dimensions



### FTC-20L Machine Dimensions



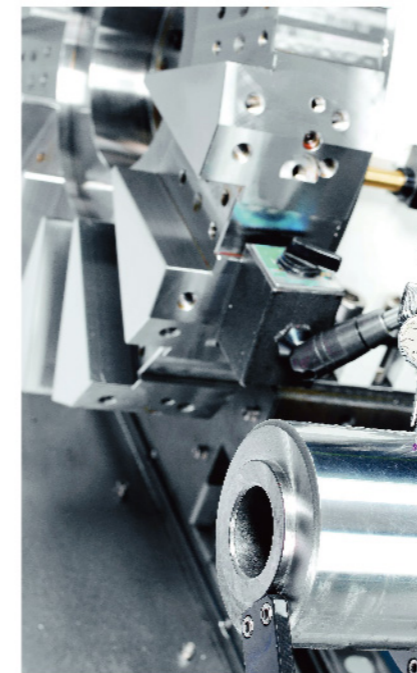
### FTC-30 Machine Dimensions



## FTC MACHINE SPECIFICATIONS

| Model                               | Unit  | FTC-10        | FTC-20            | FTC-20L       | FTC-30        |
|-------------------------------------|-------|---------------|-------------------|---------------|---------------|
| Swing Over Bed / Front Cover        | mm    | Ø510          | Ø600              | Ø600          | Ø580          |
| Standard Turning Diameter           | mm    | Ø180          | Ø250              |               | Ø310          |
| Max. Turning Diameter               | mm    | Ø240          | Ø350              |               | Ø450          |
| Max. Turning Length                 | mm    | 255           | 343               | 613           | 621           |
| Hydraulic Power Chuck Diameter      |       | 6" (8")       | 8" (10")          |               | 10" (12")     |
| Swing Over Saddle                   | mm    | Ø240          | Ø380              |               | Ø440          |
| X axis Travel                       | mm    | 120+20        | 175 + 25          |               | 225+25        |
| Z axis Travel                       | mm    | 290           | 380               | 650           | 670           |
| Rapid Traverse X / Z axis           | m/min | 24 / 24       | 24 / 24           |               | 20 / 20       |
| Spindle Nose                        |       | A2-5          | A2-6              |               | A2-8          |
| Spindle Speed                       | rpm   | 6,000         | 4,500             |               | 3,500         |
| Spindle Bore Diameter               | mm    | Ø56           | Ø62               |               | Ø88           |
| Through Hole Draw Tube              | mm    | Ø45           | Ø52               |               | Ø75           |
| Spindle Bearing Diameter            | mm    | Ø90           | Ø100              |               | Ø130          |
| Spindle Taper                       |       | MT#6          | 1:20              |               | 1:20          |
| No. of Tools                        |       | 10 T          | 8 T               |               | 8 T           |
| Standard O.D. Tool Size             | mm    | □20           | □25 (□20 for 12T) |               | □25           |
| I.D. Tool Size (Max.)               | mm    | Ø25           | Ø40               |               | Ø40           |
| Tailstock Quill Diameter            | mm    | Ø50           | Ø65               |               | Ø100          |
| Tailstock Quill Stroke              | mm    | 80            | 90                |               | 100           |
| Tailstock Quill Taper               |       | MT-3          | MT-4              |               | MT-4          |
| Spindle Motor (30 min / Continuous) | kW    | 11 / 7.5      | 18.5 / 15         |               | 22 / 13       |
| Servo Motor                         | kW    | X=1.6 / Z=1.6 | X=3.0 / Z=3.0     | X=3.0 / Z=3.0 | X=3.0 / Z=3.0 |
| Coolant Capacity                    | liter | 115           | 100               | 125           | 95            |
| Floor Space                         | mm    | 2,005 x 1,317 | 2,780 x 1,535     | 2,825 x 1,557 | 3,075 x 1,730 |
| Machine Weight                      | kg    | 2,500         | 3,550             | 3,850         | 5,080         |

\* Specifications and design characteristics are subject to change without prior notice.



### Standard Accessories

- \* Boring tool holder
- \* Boring bar socket
- \* Coolant system
- \* Face cutting holder
- \* Hard jaws
- \* Heat exchanger
- \* Hydraulic system
- \* Manual tailstock
- \* Morse taper MT3 socket
- \* Soft jaws
- \* Through-hole hydraulic chuck
- \* 3 color signal

### Optional Accessories

- \* Air blaster
- \* Air conditioner
- \* Automatic door
- \* Bar feeder
- \* Bar feeder interface (LNS system)
- \* Chip conveyor / chip bucket
- \* Extra hard / soft jaws
- \* Gantry loader / workpiece supplier
- \* High-pressure coolant pump
- \* Oil skimmer
- \* Parts catcher
- \* Programmable tailstock (not available in FTC-10)
- \* Tool setter
- \* Transformer
- \* Two-stage clamping force by M function
- \* VDI turret